



1645

Attorney Docket No. 8325-0029.30 (S29-US2)

PATENT

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By: Terri Davis-Smyth
Terri Davis-Smyth

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of LI et al.

Serial No.: 10/650,454

Examiner: Unassigned

Confirmation No.: 7229

Art Unit: 1645

Filed: August 27, 2003

For: COMPOSITIONS AND METHODS FOR REGULATION OF PLANT
GAMMA-TOCOPHEROL METHYLTRANSFERASE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08A for the above-identified patent application.

- ☒ [X] In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☐ [] In accordance with 37 C.F.R. §1.97(c), also enclosed is:
 - ☐ [] the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
 - ☐ [] a statement as specified in 37 C.F.R. §1.97(e).
- ☐ [] In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. §1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☐ [] Check No. ___ in the amount of \$___ for the total fee is attached.

☒ [X] A return receipt postcard is also enclosed.

☐ [] Please charge \$_____ to Deposit Account No. 18-1648 for the total fee.
This paper is being submitted in duplicate.

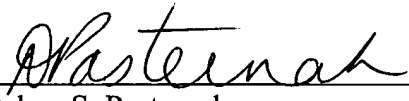
The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 18-1648.

Dated: Jan 23, 2004

Respectfully submitted,

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**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(b)**

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,
Applicant(s) hereby submits the following information in conformance with 37 C.F.R.
§§1.97 and 1.98.

- ☒ Pursuant to 37 C.F.R. §1.98, a copy of each document cited in the attached Form PTO/SB/08 is enclosed.
- ☐ No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. ____ to which the above-identified application claims priority under 35 U.S.C. §120.
- ☐ Publication(s) _____ listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to _____ application serial no. _____ and mailed on _____.

- ☐ Enclosed is a copy of a non-English publication(s) _____. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) _____. English language publication ____ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) _____ for which an English translation is not available.
- ☐ Enclosed is an English translation of non-English publication(s) _____ cited in the attached Form PTO/SB/08A.
- ☐ Enclosed is a copy of pending patent Application Serial No. _____.

This Information Disclosure Statement is filed within any one of the following time periods:

- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;
- ☒ before the mailing date of a first office action on the merits; or
- ☐ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. §1.114.

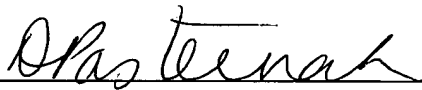
It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

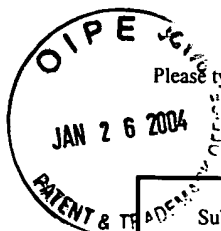
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Respectfully submitted,

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PTO/SB/08A (08-00)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/650,454		
		Filing Date	August 27, 2003		
		First Named Inventor	LI		
		Group Art Unit	1645		
Examiner Name	Unassigned				
Sheet	2	of	4	Attorney Docket Number	8329-0029.30 (S29-US2)

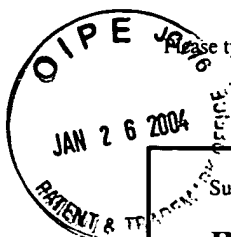
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	ABEL et al., "Transient transformation of <i>Arabidopsis</i> leaf protoplasts: a versatile experimental system to study gene expression," <i>Plant J.</i> 5, 421-427 (1994).	
	C2	BARTSEVICH et al., "Regulation of the MDR1 gene by transcriptional repressors selected using peptide combinatorial libraries," <i>Mol Pharmacol</i> 58, 1-10. (2000).	
	C3	BEERLI et al., "Engineering polydactyl zinc-finger transcription factors," <i>Nat. Biotech.</i> 20, 135-141 (2002)	
	C4	BEERLI et al., "Positive and negative regulation of endogenous genes by designed transcription factors," <i>Proc. Natl. Acad. Sci. USA</i> 97, 1495 - 1500 (2000).	
	C5	BRAMLEY et al., "Vitamin E," <i>J Sci Food Agr</i> 80, 913-938 (2000).	
	C6	CLOUGH et al., "Floral dip: a simplified method for Agrobacterium-mediated transformation of <i>Arabidopsis thaliana</i> ," <i>Plant J.</i> 16, 735-743 (1998).	
	C7	COOK et al., "Sp1 and its likes: biochemical and functional predictions for a growing family of zinc finger transcription factors," <i>Ann N Y Acad Sci</i> 880, 94-102. (1999).	
	C8	DESJARLAIS et al., "Use of a Zinc-Finger Consensus Sequence Framework and Specificity Rules to Design Specific DNA Binding Proteins," <i>Proc. Natl. Acad. Sci. USA</i> 90, 2256-2260. (1993).	
	C9	DREIER et al., "Development of zinc finger domains for recognition of the 5'-ANN-3' family of DNA sequences and their use in the construction of artificial transcription factors," <i>J. Biol. Chem.</i> 276, 29466-29478 (2001).	
	C10	GOFF et al., "Identification of functional domains in the maize transcriptional activator C1: comparison of wild-type and dominant inhibitor proteins," <i>Genes Dev.</i> 5, 298-309 (1991).	
	C11	GUAN et al., "Heritable endogenous gene regulation in plants with designed polydactyl zinc finger transcription factors," <i>Proc Natl Acad Sci USA</i> 99, 13296-13301 (2002).	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C12	GUYER et al., "Activation of latent transgenes in <i>Arabidopsis</i> using a hybrid transcription factor," <i>Genet.</i> 149, 633-639 (1998).	
	C13	HUALA et al., "The <i>Arabidopsis</i> Information Resource (TAIR): A comprehensive database and web-based information retrieval, analysis, and visualization system for a model plant," <i>Nucleic Acids Res.</i> 29, 102-105 (2001).	
	C14	KRIDL et al., "Isolation and characterization of an expressed napin gene from <i>Brassica napus</i> ," <i>Seed Sci. Res.</i> 1, 209-219 (1991).	
	C15	LI et al., "Chromatin structure and phaseolin gene regulation," <i>Plant Mol. Biol.</i> 46, 121-129 (2001).	
	C16	LI et al., "Architectural specificity in chromatin structure at the TATA box in vivo: nucleosome displacement upon beta-phaseolin gene activation," <i>Proc Natl Acad Sci USA</i> 95, 4772-4777 (1998).	
	C17	LIU et al., "Regulation of an endogenous locus using a panel of designed zinc finger proteins targeted to accessible chromatin regions," <i>J. Biol. Chem.</i> 276, 11323-11334 (2001).	
	C18	MCBRIDE et al., "Controlled expression of plastid transgenes in plants based on a nuclear DNA-encoded and plastid-targeted T7 RNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 91, 7301-7305 (1994).	
	C19	ORDIZ et al., "Regulation of transgene expression in plants with polydactyl zinc finger transcription factors," <i>Proc Natl Acad Sci USA</i> 99, 13290-13295 (2002).	
	C20	PABO et al., "Design and selection of novel Cys ₂ His ₂ zinc finger proteins," <i>Annu. Rev. Biochem.</i> 70, 313-340 (2001).	
	C21	PE_Applied_Biosystems. User Bulletin #2. Relative quantitation of gene expression. ABI prism 7700 sequence detections system. (The Perkin-Elmer Corporation, Chicago, IL, 1997).	
	C22	REN et al., "PPARgamma knockdown by engineered transcription factors: exogenous PPARgamma 2 but not PPARgamma 1 reactivates adipogenesis," <i>Genes Dev.</i> 16, 27-32 (2002).	

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	C23	SAVIDGE et al., "Isolation and characterization of homogenisate phytyltransferase genes from <i>Synechocystis</i> PCC 6803 and <i>Arabidopsis</i> ," <i>Plant Phys.</i> 129, 321-332 (2002)	
	C24	SEGAL et al., "Custom DNA-binding proteins come of age: polydactyl zinc-finger proteins," <i>Curr. Opin. Biotechnol.</i> 12, 632-637 (2001).	
	C25	SHEPPARD, A.J., PENNINGTON, J.A.; WEIHRAUCH, J.L. in Vitamin E in health and disease. (ed. Packer, J.F.L.) 9-31 (Marcel Dekker, New York, 1993).	
	C26	SHIGEOKA et al., "Isolation and properties of γ-tocopherol methyltransferase in <i>Euglena gracilis</i> ," <i>Biochim Biophys Acta.</i> 1128(2-3):220-6 (1992)	
	C27	SHINTANI et al., "Elevating the vitamin E content of plants through metabolic engineering," <i>Science</i> 282, 2098-2100 (1998).	
	C28	TRABER, "Vitamin E in humans: demand and delivery," <i>Annu. Rev. Nutr.</i> 16:321-347 (1996)	
	C29	UTLEY et al., "SWI/SNF stimulates the formation of disparate activator-nucleosome complexes but is partially redundant with cooperative binding," <i>J. Biol. Chem.</i> 272, 12642-12649 (1997).	
	C30	ZHANG et al., "Synthetic zinc finger transcription factor action at an endogenous chromosomal site," <i>J. Biol. Chem.</i> 275, 33850-33860 (2000).	

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